

Claims

1. Circuit arrangement for EMC interference suppression for a direct current motor (1) with an attenuation element (7) being connected in the supply line (4) of the direct current motor (1), forming a high resistance for high-frequency signals in particular, characterized in that the attenuation element (7) comprises a ferrite material and is disposed on a printed circuit (6), which serves to control the direct current motor (1).
2. Circuit arrangement according to claim 1, characterized in that the attenuation element (7) is configured as a common mode ferrite.
3. Circuit arrangement according to one of the preceding claims, characterized in that the attenuation element (7) is disposed as close as possible to or in the housing (5) of the direct current motor (1).
4. Circuit arrangement according to one of the preceding claims, characterized in that the printed circuit (6) with the attenuation element (7) and direct current motor (1) is disposed in a shared housing, which can be used as a switching module (10).
5. Circuit arrangement according to one of the preceding claims, characterized in that the attenuation element (7) is configured as an SMD circuit.
6. Circuit arrangement according to one of the preceding claims, characterized in that the printed circuit (6) is

configured for later insertion of the attenuation element (7).

7. Circuit arrangement according to one of claims 4 to 6, characterized in that the attenuation element (7) is configured to attenuate the interference signals due to sparking resulting at the commutator of the direct current motor (1).

8. Circuit arrangement according to one of the preceding claims, characterized in that the direct current motor (1) is configured to drive an auxiliary generating set for a motor vehicle.

9. Circuit arrangement according to claim 8, characterized in that the direct current motor (1) can be used for a transmission control, windshield wipers, a window closing system, a seat adjuster, etc.

10. Switching module with a direct current motor (1) with a control circuit on a printed circuit (6) and with an attenuation element (7) according to one of the preceding claims, characterized in that the attenuation element (7) comprises a common mode ferrite (9) and is disposed on the printed circuit (6) as close as possible to or in the direct current motor (1) and that the attenuation element (7), the printed circuit (6) and the direct current motor (1) are integrated in a shared housing (10).